Exercise 1 *For each function, select all zeros of the given function. If there are none, do not select any options.*

(a) *Let f be a function defined by $f(x) = |x + 7|$. Select all zeros of f.*

Select All Correct Answers:

(i) 0
(ii) 7
(iii) -7 ✓
(iv) -14

(b) *Let g be a function defined by $g(x) = |x| - 7$. Select all zeros of g.*

Select All Correct Answers:

(i) 0
(ii) 7 ✓
(iii) -7 ✓
(iv) -14

(c) *Let h be a function defined by $h(x) = \frac{1}{4}|x - 6| - 3$. Select all zeros of h.*

Select All Correct Answers:

(i) -6 ✓
(ii) 0
(iii) 6
(iv) 12
(v) 18 ✓

(d) *Let j be a function defined by $j(x) = x - |x| + 22$. Select all zeros of j.*

Select All Correct Answers:

(i) -22
(ii) -11 ✓
(iii) 0
(iv) 11
(v) 22